

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER 88-043

ISSUING WASTE DISCHARGE REQUIREMENTS FOR:

U.S. ARMY CORPS OF ENGINEERS, SAN FRANCISCO DISTRICT
FISCAL YEAR 1988 OAKLAND INNER & OUTER HARBOR MAINTENANCE DREDGING
ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (the Board), finds that:

1. The U.S. Army Corps of Engineers, San Francisco District (hereinafter called the Corps) applied for waste discharge requirements for the maintenance dredging and disposal of material from the Oakland Inner and Outer Harbor channels. The Corps proposes to start dredging on April 7, 1988, with their hopper dredge Essayons, and to dispose of all material at the Alcatraz disposal site in San Francisco Bay.
2. The Corps proposes to dredge up to 550,000 cubic yards of material from the Inner Harbor. This dredging will maintain a channel, 35 feet deep below MLLW, from the entrance of the Inner Harbor to Government Island. The Corps also proposes to dredge up to 600,000 cubic yards of material from the Outer Harbor channel, in order to maintain a 35 foot depth to the Oakland Army Terminal.
3. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (the Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for San Francisco Bay.
4. The beneficial uses of San Francisco Bay in the vicinity of the Alcatraz disposal site are:
 - a. Water contact recreation
 - b. Non contact water recreation
 - c. Commercial and sport fishing
 - d. Wildlife habitat
 - e. Preservation of habitat for rare and endangered species
 - f. Estuarine habitat
 - g. Fish migration and spawning
 - h. Shellfish harvesting
 - i. Navigation
5. On August 5, 1980, the Board adopted its policy for the regulation of dredge spoil disposal. Under that policy, the Board may require additional testing to evaluate the effects of a proposed dredging project.

of a proposed dredging project.

6. In February , the Corps submitted sediment chemistry and bioassay data which showed that the proposed project would not violate the water quality objectives contained in the Basin Plan, and that the proposed activity would have a minor adverse water quality impact.
7. The discharger and interested persons have been notified of the Board's intent to issue requirements for the discharge and have been provided with the opportunity to submit their written comments.
8. The Board, in a properly-noticed public hearing, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder and to the provisions of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, that the discharger shall comply with the following:

A. Receiving Water Limitations

1. The dredging and disposal activities shall not create a nuisance as defined in Section 13050 (m) of the California Water Code.
2. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of the these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any

- a. Dissolved oxygen: 5.0 mg/l minimum. The median of any three consecutive samples shall not be less than 80% saturation. When natural factors cause lesser concentrations than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
- b. Dissolved sulfide: 0.1 mg/l maximum.
- c. pH: Variation from natural ambient pH by more than 0.2 pH units.
- d. Un-ionized Ammonia as N: 0.025 mg/l annual median and 0.4 mg/l maximum.
- e. The turbidity of the waters of the state at any point beyond 200 feet outside of the Alcatraz disposal area shall not increase above background levels by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 units	5 units, maximum
50-100 units	10 units, maximum
>100 units	10% of background, maximum

3. The discharge shall not cause a violation of the water quality standards for receiving waters adopted by the Board and the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder, and listed below. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

	<u>4-day avg.</u>	<u>1-hr. avg.</u>	<u>24-hr. avg.</u>	<u>Inst. max.</u>
Arsenic	36	69	-	-
Cadmium	9.3	43	-	-
Chromium VI	50	1100	-	-
Copper	-	-	-	-
Cyanide	-	5.0	-	-
Lead	5.6	140	-	-
Mercury	0.025	2.1	-	-
Nickel	-	-	7.1	140
Selenium	-	-	-	-
Silver	-	-	-	2.3
Tributyltin	-	-	-	-

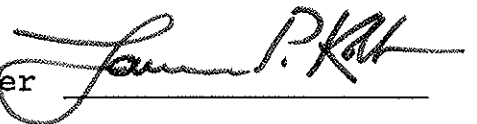
Zinc	-	-	58	170
PAHs	-	-	15	-

B. Provisions

1. The discharge of dredged materials to the waters of the State shall cease immediately whenever violations of requirements are detected by the self-monitoring program as determined by the Executive Officer, and the discharge shall not resume until compliance can be assured to the Executive Officer's satisfaction.
2. The discharger shall comply with all sections of this Order immediately upon commencement of dredged material disposal.
3. Coordination shall take place with the Department of Fish and Game, and dredging shall not commence unless the potential biological damage of the dredging is minimized.
4. The discharger shall permit the Regional Board or its authorized representative in accordance with California Water Code Section 13267 (c):
 - a. Entry upon premises in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of monitoring equipment or records.
 - d. Sampling of any discharge.
5. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December, 1986.
6. The Board will review this Order periodically, and may revise the requirements when necessary. Unless revised, these requirements will expire after three years.
7. The discharger shall comply with the self-monitoring program as adopted by this Board and as may be amended by the Executive Officer.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 16, 1988.

for Roger B. James
Executive Officer



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

FINAL
SELF-MONITORING PROGRAM
FOR

U.S. ARMY CORPS OF ENGINEERS
OAKLAND INNER & OUTER HARBOR
MAINTENANCE DREDGING

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13325 (a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board.
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. DESCRIPTION OF SAMPLING AND OBSERVATION STATIONS

E-001 To be located 200 feet away from the periphery of the
to Alcatraz disposal area. E-001, E-002, and E-003 are
E-003 to be equidistant from each other.

E-004 To be located at any point within the actively used
portion of the Alcatraz disposal area, and 200 feet
behind the disposal vessel.

III. SCHEDULE FOR SAMPLING AND OBSERVATIONS

Grab samples are to be taken at the four stations listed above, at three times: during the dredging itself, and two other times, before and after the dredging, to be arranged in consultation with the Regional Board's staff. The samples are to be taken one foot below the surface, and analyzed as follows:

Dissolved oxygen (in mg/l)
Sulfides (in mg/l, if the dissolved oxygen level is below 5 mg/l)
pH
Turbidity (JTU)
Ammonia (mg/l)
Standard observations

Standard observations include:

- a. Floating and suspended materials of waste origin, (to

include oil, grease, and other macroscopic particulate matter), and the size of the affected area.


- b. Discoloration and turbidity: description of color, and size of the affected area.
- c. Odor: characterization and distance of travel.
- d. Height of tide, corrected to the nearest location for the sampling date and time of sample and collection.

IV. REPORTS TO BE FILED WITH THE BOARD

1. Report by telephone to the Regional Board five days ahead of the scheduled date of commencement of dredging operation.
2. In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions, the discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.
3. A written report summarizing the required analyses shall be submitted to the Board as soon as possible, following the receipt of the laboratory data.
4. The written report shall contain a statement by the discharger, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

I, Roger B. James, Executive Officer, hereby certify that the forgoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order 88- .
2. Has been ordered by the Executive Officer on March 16, 1988.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.


for
ROGER B. JAMES
Executive Officer